32. Also alternatively, performance limitation system **34** is integrated into one of the aircraft systems **32**, such as a flight management system (FMS) or flight control system.

[0049] Referring to FIG. 3, performance limitation system 34 may comprise one or more computers 36. Computer 36 may comprise one or more processors 40 and one or more computer-readable memories 38 storing machine-readable instructions 42 executable by processor 40 and configured to cause processor 40 to generate one or more outputs 46. The outputs 46 may comprise one or more signals for causing display device 14 of aircraft 10 to display one or more indicator of one or more performance limitation. The outputs 46 may also comprise one or more signals for causing one or more aircraft system(s) 32 to cause display device 14 of aircraft 10 to display one or more indicator(s) of one or more performance limitation(s).

[0050] Computer 36 may receive inputs 44 in the form of data or information that may be processed by processor 40 based on instructions 42 in order to generate output 46. For example, inputs 46 may comprise information indicative of a non-normal event. Non-normal event information may take the form of one or more logic equations asserted by one or more of the aircraft systems 32. Alternatively, non-normal event information may take the form of a checklist, whether manually generated by pilot or co-pilot input or automatically generated by an aircraft system 32. Non-normal event information may correspond to the generation of the checklist or to actions and/or inputs from the flight crew in response to the checklist. Non-normal event information may also take other forms, such as an alert signal generated by anyone of the aircraft systems 32. Performance limitation system 34 may consider any input 44 or combination of inputs 44 that it has been configured to recognize as indicative of a non-normal event. Detection of non-normal events by the aircraft is undertaken by existing aircraft systems 32 and will not be described in detail herein.

[0051] In some embodiments, inputs 44 may alternatively or in addition comprise information indicative of a reconfiguration of the aircraft 10. Reconfiguration information comprises at least one performance limitation of at least one aircraft or system parameter. In some embodiments, reconfiguration information also acts as non-normal event information. Alternatively, reconfiguration information is received separately from non-normal event information. Computer 36 may, based on inputs 44, generate output 46 for causing display device 14 to display one or more indicators of one or more performance limitations co-located, and/or overlaid, with the one or more aircraft or system parameters to which the one or more performance limitations apply.

[0052] Computer 36 may be part of an avionics suite of aircraft 10. For example, in some embodiments, computer 36 may carry out additional functions than those described herein, including the management of one or more graphic user interfaces of flight deck 12 and/or other part(s) of aircraft 10. In various embodiments, the methods disclosed herein (or parts thereof) could be performed in parts using a plurality of computers 36 or processors 40, or, alternatively, be performed entirely using a single computer 36 or processor 40. In some embodiments, computer 36 could be physically integrated with (e.g., embedded in) display device 14.

[0053] Processor 40 may comprise any suitable device(s) configured to cause a series of steps to be performed by computer 36 so as to implement a computer-implemented

process such that instructions 42, when executed by computer 36 or other programmable apparatus, may cause the functions/acts specified in the methods described herein to be executed. Processor 40 may comprise, for example, any type of general-purpose microprocessor or microcontroller, a digital signal processing (DSP) processor, an integrated circuit, a field programmable gate array (FPGA), a reconfigurable processor, other suitably programmed or programmable logic circuits, or any combination thereof.

[0054] Memory 38 may comprise any suitable known or other machine-readable storage medium. Memory 38 may comprise non-transitory computer readable storage medium such as, but not limited to, an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus, or device, or any suitable combination of the foregoing. Memory 38 may include a suitable combination of any type of computer memory that is located either internally or externally to computer 36 such as, for example, randomaccess memory (RAM), read-only memory (ROM), compact disc read-only memory (CDROM), electro-optical memory, magneto-optical memory, erasable programmable read-only memory (EPROM), and electrically-erasable programmable read-only memory (EEPROM), Ferroelectric RAM (FRAM) or the like. Memory 38 may comprise any storage means (e.g. devices) suitable for retrievably storing machine-readable instructions 42 executable by processor

[0055] Various aspects of the present disclosure may be embodied as systems, devices, methods and/or computer program products. Accordingly, aspects of the present disclosure may take the form of an entirely hardware embodiment, an entirely software embodiment (including firmware, resident software, micro-code, etc.) or an embodiment combining software and hardware aspects. Furthermore, aspects of the present disclosure may take the form of a computer program product embodied in one or more non-transitory computer readable medium(ia) (e.g.; memory 38) having computer readable program code (e.g., instructions 42) embodied thereon. The computer program product may, for example, be executed by computer 36 to cause the execution of one or more methods disclosed herein in entirety or in part.

[0056] Computer program code for carrying out operations for aspects of the present disclosure in accordance with instructions 42 may be written in any combination of one or more programming languages, including an object oriented programming language such as Java, Smalltalk, C++ or the like and conventional procedural programming languages, such as the "C" programming language or other programming languages. Such program code may be executed entirely or in part by computer 36 or other processing device(s). It is understood that, based on the present disclosure, one skilled in the relevant arts could readily write computer program code for implementing the methods disclosed herein.

[0057] Referring to FIG. 4, there is illustrated an example embodiment of a method 48 as performed by the computer 36 of the performance limitation system 34. As per step 50, a non-normal event is detected in-flight. Detection is performed by processing non-normal event information received as inputs 44 to system 34. In some embodiments, the non-normal event information corresponds to a checklist, a checklist action item, or a logic equation asserted by one or more aircraft systems 32. In some embodiments, step